Company Information

Company Name

GLOBAL WORKS Co., Ltd.

Representative

TOMOHIRO NITTA

Capital

600 million yen

Business Content

Plans for surveys, repairs, and reinforcement measures related to civil engineering and building structures

(Appearance survey, core collection, neutralization test, EPMA, integrity test, etc.)

various concrete tests

(Slump test, compression strength test, accelerated neutralization test, freeze-thaw test, etc.)

Concrete anticorrosion work (A type, B type, C type, D type)

Consulting business (operation planning · landscape basic design and detail design)

Market research · development business support · civil engineering · building material sales · temporary employee business

Main Trading Banks

Sumitomo Mitsui Banking Corporation · MUFG Bank · The Chiba Bank · The Bank of Fukuoka

Location

〒103-0013

2F, Cosmo III Building, 2-20-7 Nihonbashi Ningyocho, Chuo-ku, Tokyo

TEL 03-5623-5505 FAX 03-5623-5506

Office

okyo Head Offic

Chiba Sales Office · Osaka Sales Office · Hokkaido/Tohoku Sales Office

Vietnam (Hanoi)

Related Company

Overseas concrete secondary product manufacturer

○ NITTA-SONG DAY COMPANY LIMITED Ha Noi, Viet Nam (North)

ria rioi, viot riairi (rioiti)

Overseas trading company

o Vietchem Japan (Hanoi, Ho Chi Minh)

Main Business Partners

Asahi Koei / Wesco Co., Ltd./NJS Co., Ltd./Obayashi Corporation Kajima Construction Co., Ltd./Goyo Construction Co., Ltd./Sansui Consultant Co., Ltd. Cl Kasei Co., Ltd./Seed Consultant / JXTG Energy Co., Ltd. Shimizu

Corporation / Showa Co., Ltd. Design consultant

New Civil Engineering Development Consultant Co., Ltd./Swing Corporation

Dainippon Consultant Co., Ltd./Pacific Consultant Co., Ltd.

Taiheiyo Cement Co., Ltd./Pacific Materials Co., Ltd.

Central Reconstruction Consultants Co., Ltd./TC TRADING Co., Ltd.

Urban Development Design Co., Ltd./Naigai Engineering Co., Ltd./Nihon

Suido Consultants Co., Ltd./Nippon Koei Co., Ltd./Nippon Environmental Engineering Design Secretariat Co., Ltd.

Website

http://www.global-w.com

Company Information



S Global Works



We support the realization of 3R

Research

the structures.

We will survey the structure with reliable achievements and experience.

- · Appearance survey (cracks, cross-section defects)
- Deterioration diagnosis of concrete (Compression strength and neutralization by core sampling, chipping survey, EPMA, salinity measurement)
- Deterioration survey of skeleton and reinforcing bars (Reinforcing bar covering, pitch, degree of deterioration, tensile strength, etc.
- · Pipeline / tunnel survey
- Waterway survey

Repair Construction

We will support to various sites from many achievements.

- Concrete corrosion protection (Sheet lining and coating type lining)
- · Water stop construction
- · Pipeline repair work
- · Seismic reinforcement work

Consulting

Concrete corrosion protection, corrosion protection work

- Frame repair design (Concrete corrosion protection, frame reinforcement, water stoppage, etc.)
- · Pipe flow rate improvement design
- · Selection of materials used in special construction

Others

Supports various other operations

- · CAD drawing
- Technical data creation
- · ISO.other certification acquisition business
- Electronic delivery business
- · Business system
- · Specified temporary staffing business
- · Others

In addition, we support all types of investigations and diagnoses related to concrete structures.

Please feel free to contact us.













Water and Sewerage Water supply and Sewerage Survey

We carry out surveys and diagnoses of water supply and sewage facilities based on specialized measuring equipment and abundant experience and knowledge. We will estimate the cause, evaluate it, repair it, and consider reinforcement. We will also create and examine materials using GIS software, which are necessary for examining seismic measures for sewerage facilities.

Pipeline survey

We conduct an in-pipe survey with a camera or directly visually. In addition, we support various surveys such as neutralization depth, rebar survey, and in-pipe survey.



Manhole survey

In the manhole survey, in addition to manhole cover survey and hydrogen sulfide concentration measurement, we also support various surveys such as core sampling and rebar survey.



Treatment plants, etc

We support various surveys such as crack surveys of facility structures like sewage treatment plants, and compression strength tests by core sampling. We also continuously measures the hydrogen sulfide



Bridges Bridge Survey

We will carry out bridge inspections in accordance with the Ministry of Land, Infrastructure, Transport and Tourism "Bridge Periodic Inspection Guidelines". We perform close-up visual inspection and hammering inspection (third-party damage preventive measure inspection) of each member and appendage of the bridge. Results are created according to various points.

Inspection status (regular inspection)

Inspection status (Third-party damage prevention measures)













Agricultural Facilities Agriculrutal Facilities Survey

We survey all concrete facilities such as open channels, pumping stations, pipelines, and headworks. We support functional diagnostic surveys for practicing stock management.

We also carry out maintenance planning work as needed.

Open channel survey

We conduct various inspections such as visual inspection of appearance. compression strength of concrete, and neutralization depth.



Pumping station survey

We support appearance surveys using aerial vehicle and drones, as well as various types of surveys.



Pipeline(tunnel) survey

We conduct pipeline survey regardless of whether they are circular or rectangular.

We supports visual inspection of appearance, deflection, ioints (rubber position) of internal pressure pipes, etc.



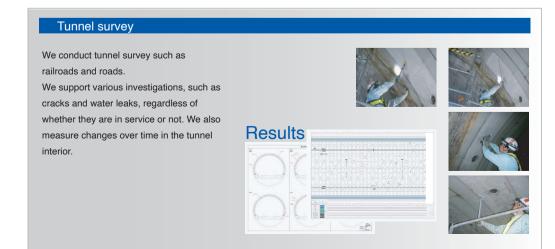
Headwork survey

We will visually inspect the appearance, investigate the compression strength, neutralization depth, etc. estimate the cause of deterioration, and propose countermeasures.



Tunnels Tunnel Survey

We support various surveys such as crack surveys in tunnels and hammering inspection surveys.



Survey · Technical Support

Appearance, cracks, spalling, cavity survey

Visual survey

Visual survey the appearance of civil engineering structures (sewerage facilities, agricultural water related facilities, bridges, tunnels, dams, etc.). We measure degradation conditions (cracks and other deformations) and display them on CAD drawings.



Appearance survey by drone We will use a drone to investigate areas where visual inspection is difficult.



Appearance survey in narrow areas

We will survey narrow areas using a camera that can shoot 360 degrees.



Compressive strength of concrete

Compressive strength test by core sampling

The core is pulled out directly from the concrete frame and the compressive strength is measured. Complies with JIS A 1107 "Concrete core sampling method and compressive strength test method".





Compressive strength test by using rebound hammer

Estimate compression strength with Schmidt hammer. A non-destructive inspection method that does not damage the concrete frame. JIS A 1155

"Method Of Measurement For Rebound Number On Surface Of Concrete".

Besides, we will respond in various ways, as a local destruction test:

- · Pull-off method
- · Pull-out method
- · Break-off method

Neutralization depth

Neutralization depth by using core

The core is pulled out directly from the skeleton concrete and the neutralization depth is measured. Complies with JIS A 1152 "Method for measuring Carbonation Depth Of Concrete".



Chipping method

The concrete frame is chipped, then the degree of corrosion of the reinforcement and the neutralization depth are measured at the same time.



Complies with JIS A 1152 "Method for measuring Carbonation Depth Of Concrete"

Drill method

Drill a hole from the surface of the concrete frame, determine the presence or absence of coloration with drilling powder, and measure the neutralization depth.

Complies with NDIS 3419 "Neutralization Depth Test Method for Concrete Structures Using Drilling Powder".



4 Reinforcement Status/ Corrosion/Cover · Buried Objects

Non-destructive Survey

Electromagnetic wave radar method, electromagnetic induction method, natural potential method

Exploring concrete frame by non- destructive inspection using electromagnetic radar and electromagnetic induction



Chipping method

The concrete frame is chipped and the conditon is measured directly.





Concrete mix proportion, Chemical composition, Salt measurement

Measurement of sulfate ion penetration depth

Measurement of hydrogen sulfide concentration

Indicator, EPMA

Element mapping is performed using EPMA (Electron Probe Micro-Analyzer)



Measuring salt contained in concrete

Salt measurement method

JIS A 1154 "Test method for chloride ions contained in hardened concrete"

JCI-SC4 "Analysis method of salt contained in hardened concrete"

JCI-SC5 "Simple analysis method for total salt contained in hardened concrete'

Alkaline silica reaction

Alkali-aggregate reaction: Reactivity test

 Confirm the presence or absence of reactive aggregate by the mortar bar method, rapid method, or chemical method.

Measure the hydrogen sulfide concentration

- · Measurement of continuous unit water volume in cast concrete
- · Measurement of concrete surface temperature

Measurement work

- Internal temperature of mass or
- Measurement of concrete filling et
- Temperature measurement in the tank
- Measurement of tunnel inner space
- Measurement displacement of bridge

In addition, we support various measurement operations.



Other support (Creat diagram of step construction (3D/animation)), etc.

We will visualize complicated construction stages with 3D animation and support presentation materials.

In addition, we support various 3D creation such as landscape simulation.





